WHAT IS CLAIMED IS:

1.    A messaging system, comprising:

a messaging gateway operable to receive messages from a remote messaging system and to construct transmittable messages including portions of the messages received from the remote messaging system;

an RF transmission system coupled to the messaging gateway and operable to receive the transmittable messages from the messaging gateway system;

a subscriber device operable to communicate using radio frequency transmissions with the RF transmission system and operable to receive the transmittable messages including portions of the messages received from the remote messaging system through the messaging gateway system and the transmission system;

the subscriber device operable to generate commands and to transmit the commands to the RF transmission system;

the RF transmission system operable to direct the commands from the subscriber device to the messaging gateway; and

the messaging gateway system operable to translate the commands into a protocol understood by the remote messaging system and to transmit the translated command to the remote messaging system such that a user of the subscriber device can control the operation of the remote messaging system utilizing commands transmitted to the remote messaging system through the RF transmission system and the messaging gateway system.

2.    The messaging system of Claim 1 and further comprising:

a remote-controlled system coupled to a remote system controller;

the remote system controller operable to communicate using radio frequency transmissions with the RF transmission system;

the subscriber device operable to generate remote system commands and to transmit the remote system commands to the messaging gateway system through the RF transmission system;

the messaging gateway system operable to decode the remote system commands and to generate messages to the remote system controller responsive to the remote system command; and

the remote system controller operable to control the remote-controlled system responsive to the commands received from the messaging gateway system.

3.    The messaging system of Claim 1 wherein the messaging gateway system is operable to assemble a message notification transmission responsive to the receipt of a message from a remote messaging system and transmit the message notification transmission to the subscriber device through the RF transmission system;

the subscriber device operable to receive and display information responsive to the receipt of the message notification transmission and to generate a message response transmission responsive to a selection of a user of the subscriber device; and

the messaging gateway system operable to receive the message response transmission and to instruct the remote messaging system to transmit a message to the messaging gateway system for transmission to the

subscriber device responsive to the receipt of the
message response transmission.

4.    The messaging system of Claim 1 wherein the
subscriber device is operable to generate and transmit a
request message requesting the subscriber's portfolio
menu;

the messaging gateway system operable to
receive the request message and to transmit a menu
message to the subscriber device using the RF
transmission system; and

the subscriber device operable to receive the
menu message and to display a menu of options to a user
of the subscriber device responsive to the receipt of the
menu message.

5.    The messaging system of Claim 1 wherein the
messaging gateway system comprises:.

a plurality of protocol converter modules
coupled to an interface control module, the protocol
converter modules operable to receive messages from
remote messaging systems in protocols associated with the
remote messaging systems and to convert the protocols to
an internal message protocol understood by the interface
control module;

a transaction control module operable to
control and log transactions performed by the messaging
gateway system;

a database handler module operable to organize
messages and subscriber information used by the messaging
gateway system;

a file server module operable to store messages
and information processed by the messaging gateway
system;

a message construction module operable to
construct messages and commands for transmission using
the RF transmission system and to construct command
messages to be transmitted to remote messaging systems;

5      and

an action processor module operable to decode
packets and to instruct the remaining modules on actions
to perform based on these packets.


10     6.     A messaging system, comprising:

a messaging gateway operable to receive
messages from a remote messaging system and to construct
transmittable messages including portions of the messages
received from the remote messaging system;

15     an RF transmission system coupled to the
messaging gateway and operable to receive the
transmittable messages from the messaging gateway system;

a subscriber device operable to communicate
using radio frequency transmissions with the RF

20     transmission system and operable to receive the
transmittable messages including portions of the messages
received from the remote messaging system through the
messaging gateway system and the RF transmission system;

the subscriber device operable to generate

25     commands and to transmit the commands to the RF
transmission system;

the RF transmission system operable to direct
the commands from the subscriber device to the messaging
gateway system;

30     the messaging gateway system operable to
translate the commands into a protocol understood by the
remote messaging system and to transmit the translated
command to the remote messaging system such that a user
of the subscriber device can control the operation of the

35     remote messaging system utilizing commands transmitted to

the remote messaging system through the RF transmission system and the messaging gateway system;

a remote-controlled system coupled to a remote system controller;

5          the remote system controller operable to communicate using radio frequency transmissions with the RF transmission system;

the subscriber device operable to generate remote system commands and to transmit the remote system

10        commands to the messaging gateway system through the RF transmission system;

the messaging gateway system operable to decode the remote system commands and to generate messages to the remote system controller responsive to the remote

15        system command; and

the remote system controller operable to control the remote-controlled system responsive to the commands and to the transmissions received from the messaging gateway system.

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7.    The messaging system of Claim 6 wherein the messaging gateway system is operable to assemble a message notification transmission responsive to the receipt of a message from a remote messaging system;

25        the messaging gateway system further operable to transmit the message notification transmission to the subscriber device through the RF transmission system;

the subscriber device operable to receive and display information responsive to the receipt of the

30        message notification transmission and to generate a message response transmission responsive to a selection of a user of the subscriber device; and

the messaging gateway system operable to receive the message response transmission and to instruct

35        the remote messaging system to transmit a message to the

messaging gateway system for transmission to the
subscriber device responsive to the receipt of the
message response transmission.

5      8.    The messaging system of Claim 7 wherein the
subscriber device is operable to generate a request
message utilizing a unique transaction identifier
programmed into the subscriber device or entered into the
subscriber device;

10          the messaging gateway system operable to
receive the request message and recognize the unique
transaction I.D. as a request and to transmit a menu
message to the subscriber device using the RF
transmission system; and

15          the subscriber device operable to receive the
menu message and to display a menu of options to a user
of the subscriber device responsive to the receipt of the
menu message.

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9.    A method of processing messages comprising the steps of:

receiving at a messaging gateway a message notification from a remote messaging system;

transmitting the message notification to a subscriber device through an RF transmission system;

transmitting a deliver message command in response to the message notification from the subscriber device to the messaging gateway through the RF transmission system;

transmitting a command to the remote messaging system from the messaging gateway requesting the message associated with the message notification;

receiving at the messaging gateway the message from the remote messaging system;

transmitting the message to the subscriber device through the RF transmission system;

transmitting a command associated with the message to the messaging gateway from the subscriber device through the RF transmission system; and

transmitting a command message including the command from the subscriber device to the remote messaging system through the messaging gateway.

10.    The method of Claim 9 and further comprising the step of:

receiving at the messaging gateway system a command acknowledgment message from the remote messaging system;

transmitting the command acknowledgment to the subscriber device through the RF transmission system; and

displaying the command acknowledgment to a user of the subscriber device.

11.   The method of Claim 9 and further comprising the step of:

generating at the subscriber device a message including a remote system command;

5   transmitting the remote system command to the messaging gateway system through the RF transmission system from the subscriber device;

transmitting a message from the message gateway system to a remote system controller through the RF

10   transmission system instructing the remote system controller to perform the actions instructed by the command received from the subscriber device; and

controlling a remote-controlled system using the remote system controller responsive to the message

15   received from the messaging gateway system.


12.   A method of processing voice messages comprising the steps of:

receiving in a messaging gateway a voice

20   message notification;

transmitting a page including the voice message notification to a subscriber device through a transmission system;

transmitting a voice message send command from

25   the subscriber device to the messaging gateway;

retrieving the voice message from the remote messaging system into the messaging gateway;

transmitting the voice message from the messaging gateway to the subscriber device through the

30   transmission system;

transmitting a command from the subscriber device to the messaging gateway associated with the processing of the voice message; and

transmitting the command from the messaging

35   gateway to the remote messaging system such that the user

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of the subscriber device can remotely command the
operation of the remote messaging system.

13. The method of Claim 12 wherein the step of
transmitting a command from the subscriber device to the
messaging gateway system comprises the step of
transmitting a command instructing the remote voicemail
system to save the message.

14. The method of Claim 12 wherein the step of
transmitting a command from the subscriber device to the
messaging gateway system comprises the step of
transmitting a command instructing the remote voicemail
system to redirect the message and wherein the command
message also includes an address of the intended
recipient and a text message to be included with the
redirected message.

15. The method of Claim 12 wherein the step of
transmitting a command from the subscriber device to the
messaging gateway system comprises the step of
transmitting a command instructing the remote voicemail
system to reply to the message and wherein the reply
message also includes a text message to be included and
sent to the intended recipient of the message.

16. A method of processing voice messages
comprising the steps of:
    receiving in a messaging gateway a voice
message from a remote voice message system coupled to the
messaging gateway system;
    transmitting a page including the voice message
notification page to a subscriber device through a
transmission system;

transmitting a voice message deliver command from the subscriber device to the messaging gateway;

transmitting the voice message from the messaging gateway to the subscriber device through the transmission system; and

transmitting a command from the subscriber device to the messaging gateway associated with the processing of the voice message.

17. The method of Claim 16 wherein the step of transmitting a command from the subscriber device to the messaging gateway system comprises the step of transmitting a command instructing the messaging gateway system to instruct the remote voice messaging system to save the message.

18. The method of Claim 16 wherein the step of transmitting a command from the subscriber device to the messaging gateway system comprises the step of transmitting a command instructing messaging gateway system to redirect the message and wherein the command message also includes an address of the intended recipient and a text message to be included with the redirected message.

19. The method of Claim 16 wherein the step of transmitting a command from the subscriber device to the messaging gateway system comprises the step of transmitting a command instructing the messaging gateway system to reply to the message and wherein the reply message also includes a text message to be included and sent to the intended recipient of the message.